

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/535,168  
Source: JFWP  
Date Processed by STIC: 10/13/2006

***ENTERED***

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/535, 168

CRF Edit Date: 10/13/2006  
Edited by: DA

— Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

— Corrected the SEQ ID NO. Sequence numbers edited were:

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— Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

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~~Deleted: \_\_\_\_\_ invalid beginning/end-of-file text ; \_\_\_\_\_ page numbers~~

— Inserted mandatory headings/numeric identifiers, specifically:

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— Moved responses to same line as heading/numeric identifier, specifically:

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— Other:

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IFWP

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/535,168

DATE: 10/13/2006  
TIME: 15:08:05

Input Set : N:\DA\PTO.DA.txt  
Output Set: N:\CRF4\10132006\J535168.raw

3 <110> APPLICANT: Chiron SRL  
 4       Norais, Nathalie  
 5       Grandi, Guido  
 7 <120> TITLE OF INVENTION: Unexpected Meningococcus Surface Proteins  
 9 <130> FILE REFERENCE: P032364WO  
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/535,168  
 C--> 12 <141> CURRENT FILING DATE: 2005-05-16  
 14 <150> PRIOR APPLICATION NUMBER: GB0226734.2  
 15 <151> PRIOR FILING DATE: 2002-11-15  
 17 <150> PRIOR APPLICATION NUMBER: GB0307131.3  
 18 <151> PRIOR FILING DATE: 2003-03-27  
 20 <160> NUMBER OF SEQ ID NOS: 217  
 22 <170> SOFTWARE: SeqWin99, version 1.02  
 24 <210> SEQ ID NO: 1  
 25 <211> LENGTH: 403  
 26 <212> TYPE: PRT  
 27 <213> ORGANISM: Neisseria meningitidis  
 29 <400> SEQUENCE: 1  
 30 Met Ala Phe Leu Lys Leu Thr Glu Gln Asn Val Gln Gly Lys Thr Val  
 31        1               5               10               15  
 33 Leu Ile Arg Ala Asp Met Asn Val Pro Phe Lys Asp Gly Lys Ile Ser  
 34        20              25              30  
 36 Asp Asp Thr Arg Ile Arg Ala Ser Leu Ala Ser Ile Lys Tyr Cys Val  
 37        35              40              45  
 39 Asp Asn Gly Ala Ser Val Ile Val Met Thr His Leu Gly Arg Pro Thr  
 40        50              55              60  
 42 Glu Gly Glu Phe His Pro Glu Asp Asp Val Ala Pro Val Ala Ala His  
 43        65              70              75              80  
 45 Leu Gly Ser Leu Leu Gly Lys Asp Val Lys Val Leu Asn Asp Trp Arg  
 46        85              90              95  
 48 Glu Asn Lys Pro Ala Leu Asn Ala Gly Asp Val Val Met Leu Gln Asn  
 49        100            105            110  
 51 Val Arg Ile Asn Lys Gly Glu Lys Lys Asn Asp Leu Glu Leu Gly Lys  
 52        115            120            125  
 54 Ala Tyr Ala Ser Leu Cys Asp Val Phe Val Asn Asp Ala Phe Gly Thr  
 55        130            135            140  
 57 Ala His Arg Ala Gln Ala Ser Thr Glu Ala Val Ala Gln Ala Ala Pro  
 58        145            150            155            160  
 60 Val Ala Cys Ala Gly Val Leu Met Ala Gly Glu Leu Asp Ala Leu Gly  
 61        165            170            175  
 63 Lys Ala Leu Lys Gln Pro Ala Arg Pro Met Val Ala Ile Val Ala Gly  
 64        180            185            190  
 66 Ser Lys Val Ser Thr Lys Leu Thr Ile Leu Glu Ser Leu Ala Asp Lys

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/535,168

DATE: 10/13/2006  
TIME: 15:08:05

Input Set : N:\DA\PTO.DA.txt  
Output Set: N:\CRF4\10132006\J535168.raw

67 195 200 205  
 69 Val Asp Gln Leu Ile Val Gly Gly Gly Ile Ala Asn Thr Phe Leu Leu  
 70 210 215 220  
 72 Ala Glu Gly Lys Ala Ile Gly Lys Ser Leu Ala Glu His Asp Leu Val  
 73 225 230 235 240  
 75 Glu Glu Ser Lys Lys Ile Met Ala Lys Met Ala Ala Lys Gly Gly Ser  
 76 245 250 255  
 78 Val Pro Leu Pro Thr Asp Val Val Ala Lys Ala Phe Ala Ala Asp  
 79 260 265 270  
 81 Ala Glu Ala Val Val Lys Asp Ile Ala Ala Asp Ala Glu Ala Val Val  
 82 275 280 285  
 84 Lys Asp Ile Ala Asp Val Ala Glu Asp Glu Met Ile Leu Asp Ile Gly  
 85 290 295 300  
 87 Pro Lys Ser Ala Ala Ala Leu Ala Asp Leu Leu Lys Ala Ala Gly Thr  
 88 305 310 315 320  
 90 Val Val Trp Asn Gly Pro Val Gly Val Phe Glu Phe Asp Gln Phe Ala  
 91 325 330 335  
 93 Gly Gly Thr Lys Ala Leu Ala Glu Ala Ile Ala Gln Ser Lys Ala Phe  
 94 340 345 350  
 96 Ser Ile Ala Gly Gly Gly Asp Thr Leu Ala Ala Ile Ala Lys Phe Gly  
 97 355 360 365  
 99 Val Thr Glu Gln Ile Gly Tyr Ile Ser Thr Gly Gly Gly Ala Phe Leu  
 100 370 375 380  
 102 Glu Phe Leu Glu Gly Lys Glu Leu Pro Ala Val Ala Ala Leu Glu Lys  
 103 385 390 395 400  
 105 Arg Gly Ala  
 108 <210> SEQ ID NO: 2  
 109 <211> LENGTH: 170  
 110 <212> TYPE: PRT  
 111 <213> ORGANISM: Neisseria meningitidis  
 113 <400> SEQUENCE: 2  
 114 Met Asn Thr Leu Gln Lys Gly Phe Thr Leu Ile Glu Leu Met Ile Val  
 115 1 5 10 15  
 117 Ile Ala Ile Val Gly Ile Leu Ala Ala Val Ala Leu Pro Ala Tyr Gln  
 118 20 25 30  
 120 Asp Tyr Thr Ala Arg Ala Gln Val Ser Glu Ala Ile Leu Leu Ala Glu  
 121 35 40 45  
 123 Gly Gln Lys Ser Ala Val Thr Glu Tyr Tyr Leu Asn His Gly Glu Trp  
 124 50 55 60  
 126 Pro Gly Asn Asn Thr Ser Ala Gly Val Ala Thr Ser Ser Glu Ile Lys  
 127 65 70 75 80  
 129 Gly Lys Tyr Val Lys Ser Val Glu Val Lys Asn Gly Val Val Thr Ala  
 130 85 90 95  
 132 Gln Met Ala Ser Ser Asn Val Asn Asn Glu Ile Lys Gly Lys Lys Leu  
 133 100 105 110  
 135 Ser Leu Trp Ala Lys Arg Gln Asn Gly Ser Val Lys Trp Phe Cys Gly  
 136 115 120 125  
 138 Gln Pro Val Thr Arg Asp Lys Ala Lys Ala Ala Asn Asp Asp Val Thr  
 139 130 135 140

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/535,168

DATE: 10/13/2006  
TIME: 15:08:05

Input Set : N:\DA\PTO.DA.txt  
Output Set: N:\CRF4\10132006\J535168.raw

141 Ala Ala Ala Ala Asn Gly Lys Lys Ile Asp Thr Lys His Leu Pro  
142 145 150 155 160  
144 Ser Thr Cys Arg Asp Ala Ser Asp Ala Ser  
145 165 170  
147 <210> SEQ ID NO: 3  
148 <211> LENGTH: 685  
149 <212> TYPE: PRT  
150 <213> ORGANISM: Neisseria meningitidis  
152 <400> SEQUENCE: 3  
153 Met Thr Arg Lys Ile Leu Val Thr Ser Ala Leu Pro Tyr Ala Asn Gly  
154 1 5 10 15  
156 Ser Ile His Leu Gly His Met Val Glu His Ile Gln Thr Asp Val Trp  
157 20 25 30  
159 Val Arg Phe Gln Lys Leu Arg Gly His Ala Cys His Tyr Cys Cys Ala  
160 35 40 45  
162 Asp Asp Thr His Gly Thr Pro Val Met Leu Ala Ala Gln Lys Gln Gly  
163 50 55 60  
165 Ile Ala Pro Glu Asp Met Ile Ala Lys Val Arg Glu Glu His Leu Ala  
166 65 70 75 80  
168 Asp Phe Thr Gly Phe Phe Ile Gly Tyr Asp Asn Tyr Tyr Ser Thr His  
169 85 90 95  
171 Ser Pro Glu Asn Lys Gln Phe Ser Gln Asp Ile Tyr Arg Ala Leu Lys  
172 100 105 110  
174 Ala Asn Gly Lys Ile Glu Ser Arg Val Ile Glu Gln Leu Phe Asp Pro  
175 115 120 125  
177 Glu Lys Gln Met Phe Leu Pro Asp Arg Phe Val Lys Gly Glu Cys Pro  
178 130 135 140  
180 Lys Cys His Ala Gln Asp Gln Tyr Gly Asp Asn Cys Glu Val Cys Gly  
181 145 150 155 160  
183 Thr Thr Tyr Ser Pro Thr Glu Leu Ile Asn Pro Tyr Ser Ala Val Ser  
184 165 170 175  
186 Gly Thr Lys Pro Glu Leu Arg Glu Ser Glu His Phe Phe Lys Leu  
187 180 185 190  
189 Gly Glu Cys Ala Asp Phe Leu Lys Ala Trp Thr Ser Gly Asn Asn Pro  
190 195 200 205  
192 His Asp Gly Lys Pro His Leu Gln Ala Glu Ala Leu Asn Lys Met Lys  
193 210 215 220  
195 Glu Trp Leu Gly Glu Gly Glu Glu Thr Thr Leu Ser Asp Trp Asp Ile  
196 225 230 235 240  
198 Ser Arg Asp Ala Pro Tyr Phe Gly Phe Glu Ile Pro Asp Ala Pro Gly  
199 245 250 255  
201 Lys Tyr Phe Tyr Val Trp Leu Asp Ala Pro Val Gly Tyr Met Ala Ser  
202 260 265 270  
204 Phe Lys Asn Leu Cys Asp Arg Ile Gly Val Asp Phe Asp Glu Tyr Phe  
205 275 280 285  
207 Lys Ala Asp Ser Gln Thr Glu Met Tyr His Phe Ile Gly Lys Asp Ile  
208 290 295 300  
210 Leu Tyr Phe His Ala Leu Phe Trp Pro Ala Met Leu His Phe Ser Gly  
211 305 310 315 320

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/535,168

DATE: 10/13/2006  
TIME: 15:08:05

Input Set : N:\DA\PTO.DA.txt  
Output Set: N:\CRF4\10132006\J535168.raw

213 His Arg Ala Pro Thr Gly Val Tyr Ala His Gly Phe Leu Thr Val Asp  
214 325 330 335  
216 Gly Gln Lys Met Ser Lys Ser Arg Gly Thr Phe Ile Thr Ala Lys Ser  
217 340 345 350  
219 Tyr Leu Glu Gln Gly Leu Asn Pro Glu Trp Met Arg Tyr Tyr Ile Ala  
220 355 360 365  
222 Ala Lys Leu Asn Ser Lys Ile Glu Asp Ile Asp Leu Asn Leu Gln Asp  
223 370 375 380  
225 Phe Ile Ser Arg Val Asn Ser Asp Leu Val Gly Lys Tyr Val Asn Ile  
226 385 390 395 400  
228 Ala Ala Arg Ala Ser Gly Phe Ile Ala Lys Arg Phe Glu Gly Arg Leu  
229 405 410 415  
231 Lys Asp Val Ala Asp Ser Glu Leu Leu Ala Lys Leu Thr Ala Gln Ser  
232 420 425 430  
234 Glu Ala Ile Ala Glu Cys Tyr Glu Ser Arg Glu Tyr Ala Lys Ala Leu  
235 435 440 445  
237 Arg Asp Ile Met Ala Leu Ala Asp Ile Val Asn Glu Tyr Val Asp Ala  
238 450 455 460  
240 Asn Lys Pro Trp Glu Leu Ala Lys Gln Glu Gly Gln Asp Glu Arg Leu  
241 465 470 475 480  
243 His Glu Val Cys Ser Glu Leu Ile Asn Ala Phe Thr Met Leu Thr Ala  
244 485 490 495  
246 Tyr Leu Ala Pro Val Leu Pro Gln Thr Ala Ala Asn Ala Ala Lys Phe  
247 500 505 510  
249 Leu Asn Leu Glu Ala Ile Thr Trp Ala Asn Thr Arg Asp Thr Leu Gly  
250 515 520 525  
252 Lys His Ala Ile Asn Lys Tyr Glu His Leu Met Gln Arg Val Glu Gln  
253 530 535 540  
255 Lys Gln Val Asp Asp Leu Ile Glu Ala Asn Lys Gln Ser Ile Ala Ala  
256 545 550 555 560  
258 Ala Ala Ala Pro Ala Ala Glu Glu Gly Lys Tyr Glu Lys Val Ala Glu  
259 565 570 575  
261 Gln Ala Ser Phe Asp Asp Phe Met Lys Ile Asp Met Arg Val Ala Lys  
262 580 585 590  
264 Val Leu Asn Cys Glu Ala Val Glu Gly Ser Thr Lys Leu Leu Lys Phe  
265 595 600 605  
267 Asp Leu Asp Phe Gly Phe Glu Lys Arg Ile Ile Phe Ser Gly Ile Ala  
268 610 615 620  
270 Ala Ser Tyr Pro Asn Pro Ala Glu Leu Asn Gly Arg Met Val Ile Ala  
271 625 630 635 640  
273 Val Ala Asn Phe Ala Pro Arg Lys Met Ala Lys Phe Gly Val Ser Glu  
274 645 650 655  
276 Gly Met Ile Leu Ser Ala Ala Thr Ala Asp Gly Lys Leu Lys Leu Leu  
277 660 665 670  
279 Asp Val Asp Thr Gly Ala Gln Pro Gly Asp Lys Val Gly  
280 675 680 685  
282 <210> SEQ ID NO: 4  
283 <211> LENGTH: 456  
284 <212> TYPE: PRT

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/535,168

DATE: 10/13/2006  
TIME: 15:08:05

Input Set : N:\DA\PTO.DA.txt  
Output Set: N:\CRF4\10132006\J535168.raw

285 <213> ORGANISM: *Neisseria meningitidis*  
287 <400> SEQUENCE: 4  
288 Met Pro Gln Asn Thr Leu Asn Ile Val Ile Leu Ala Ala Gly Lys Gly  
289 1 5 10 15  
291 Thr Arg Met Tyr Ser Lys Met Pro Lys Val Leu His Arg Ile Gly Gly  
292 20 25 30  
294 Lys Pro Met Val Gly Arg Val Ile Asp Thr Ala Ala Ala Leu Asn Pro  
295 35 40 45  
297 Gln Asn Ile Cys Val Val Ile Gly His Gly Lys Glu Gln Val Leu Asp  
298 50 55 60  
300 Thr Val Lys Arg Asp Val Val Trp Val Glu Gln Thr Glu Gln Leu Gly  
301 65 70 75 80  
303 Thr Gly His Ala Val Lys Thr Ala Leu Pro His Leu Ser Ala Glu Gly  
304 85 90 95  
306 Arg Thr Leu Val Leu Tyr Gly Asp Val Pro Leu Ile Asp Val Glu Thr  
307 100 105 110  
309 Leu Glu Thr Leu Leu Glu Ala Ala Gly Asn Glu Val Gly Leu Leu Thr  
310 115 120 125  
312 Asp Val Pro Asn Asp Pro Thr Gly Leu Gly Arg Ile Ile Arg Asp Ser  
313 130 135 140  
315 Asn Gly Ser Val Thr Ala Ile Val Glu Glu Lys Asp Ala Asp Ala Val  
316 145 150 155 160  
318 Gln Lys Ala Val Lys Glu Ile Asn Thr Gly Ile Leu Val Leu Pro Asn  
319 165 170 175  
321 Ala Lys Leu Glu Asn Trp Leu Asn Ser Leu Ser Ser Asn Asn Ala Gln  
322 180 185 190  
324 Gly Glu Tyr Tyr Leu Thr Asp Leu Ile Ala Lys Ala Val Ala Asp Gly  
325 195 200 205  
327 Ile Lys Val His Pro Val Gln Val Arg Ala Ser His Leu Ala Ala Gly  
328 210 215 220  
330 Val Asn Asn Lys Leu Gln Leu Thr Glu Leu Glu Arg Ile Phe Gln Thr  
331 225 230 235 240  
333 Glu Gln Ala Gln Glu Leu Leu Lys Ala Gly Val Thr Leu Arg Asp Pro  
334 245 250 255  
336 Ala Arg Phe Asp Leu Arg Gly Arg Leu Lys His Gly Gln Asp Val Val  
337 260 265 270  
339 Ile Asp Val Asn Cys Ile Phe Glu Gly Asp Ile Glu Leu Gly Asp Asn  
340 275 280 285  
342 Val Glu Ile Gly Ala Asn Cys Val Ile Lys Asn Ala Lys Ile Gly Ala  
343 290 295 300  
345 Asn Ser Lys Ile Ala Pro Phe Ser His Leu Glu Ser Cys Glu Val Gly  
346 305 310 315 320  
348 Glu Asn Asn Arg Ile Gly Pro Tyr Ala Arg Leu Arg Pro Gln Ala Arg  
349 325 330 335  
351 Leu Ala Asp Asp Val His Val Gly Asn Phe Val Glu Ile Lys Asn Ala  
352 340 345 350  
354 Ala Ile Gly Lys Gly Thr Lys Ala Asn His Leu Thr Tyr Ile Gly Asp  
355 355 360 365  
357 Ala Glu Val Gly Cys Lys Thr Asn Phe Gly Ala Gly Thr Ile Ile Ala

**VERIFICATION SUMMARY**  
PATENT APPLICATION: US/10/535,168

DATE: 10/13/2006  
TIME: 15:08:06

Input Set : N:\DA\PTO.DA.txt  
Output Set: N:\CRF4\10132006\J535168.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

**Raw Sequence Listing before editing,  
for reference only**



IFWP

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/535,168

DATE: 10/10/2006  
TIME: 14:21:44

Input Set : E:\sequence listing1.TXT  
Output Set: N:\CRF4\10102006\J535168.raw

3 <110> APPLICANT: Chiron SRL  
4       Norais, Nathalie  
5       Grandi, Guido  
7 <120> TITLE OF INVENTION: Unexpected Meningococcus Surface Proteins  
9 <130> FILE REFERENCE: P032364WO  
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/535,168  
C--> 12 <141> CURRENT FILING DATE: 2005-05-16  
14 <150> PRIOR APPLICATION NUMBER: GB0226734.2  
15 <151> PRIOR FILING DATE: 2002-11-15  
17 <150> PRIOR APPLICATION NUMBER: GB0307131.3  
18 <151> PRIOR FILING DATE: 2003-03-27  
20 <160> NUMBER OF SEQ ID NOS: 217  
22 <170> SOFTWARE: SeqWin99, version 1.02

Does Not Comply  
Corrected Diskette Needed

(pg-2)

## ERRORED SEQUENCES

18101 <210> SEQ ID NO: 217  
18102 <211> LENGTH: 371  
18103 <212> TYPE: PRT  
18104 <213> ORGANISM: Neisseria meningitidis  
18106 <400> SEQUENCE: 217  
18107 Met Arg Leu Phe Lys Ser Leu Lys Asn Pro Lys Lys Thr Asp Ala Lys  
18108 1                   5                   10                   15  
18110 Leu Pro Lys Lys Ser Ser Gly Leu Asn Asn Arg Ala Ala Ile Gly Ile  
18111       20               25               30  
18113 Asp Ile Asp Gln His Ser Ile Lys Met Val Gln Leu Ser Gly Arg Ser  
18114       35               40               45  
18116 Leu Asn Gln Ile Gln Leu Glu Lys Tyr Val Ile Ala Lys Leu Pro Lys  
18117       50               55               60  
18119 Asn Ile Ile Gln Gly Asn Lys Val Gln Asn Tyr Asp Gln Leu Val Thr  
18120       65               70               75               80  
18122 Tyr Leu Gln Gln Ala Tyr Ala Lys Leu Gly Thr Ser Cys Lys Asn Ile  
18123       85               90               95  
18125 Ile Ala Ser Val Pro Gln Asn Leu Ala Thr Ile Glu Gln Leu Thr Tyr  
18126       100              105              110  
18128 Thr Asp Lys Asp Ala Glu Leu Asp Leu Gln Gly Phe Val Glu Ser Ser  
18129       115              120              125  
18131 Ile Ser Glu Val Ser Ser Ile Ser Leu Glu Glu Ala Asn Tyr Asp Tyr  
18132       130              135              140  
18134 Gln Val Leu Ser Gln Ser Ala Ala Gly Glu Ala Val Leu Ala Val Ala  
18135 145               150               155               160  
18137 Ser Arg Lys Asp Glu Ile Glu Pro Leu Ile Asp Ala Phe Asn Ala Ala

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/535,168

DATE: 10/10/2006  
TIME: 14:21:45

Input Set : E:\sequence listing1.TXT  
Output Set: N:\CRF4\10102006\J535168.raw

18138	165	170	175	
18140	Gly Met Lys Leu Ser Ala Leu Asp Val Asp Ile Phe Gly Gln Tyr Asn			
18141	180	185	190	
18143	Ala Tyr Ala Leu Trp Ile Asn His Phe Ala Pro Glu Leu Ala Ala Glu			
18144	195	200	205	
18146	Lys Val Ala Ile Phe Gly Val Tyr Ala Ala Gln Thr Tyr Ala Leu Val			
18147	210	215	220	
18149	Ile Gln Asp Gly Lys Ile Leu Tyr Lys Gln Glu Thr Ser Val Ser Glu			
18150	225	230	235	240
18152	Glu Gln Leu Asn Gln Leu Ile Gln Arg Thr Tyr Gln Val Thr Glu Glu			
18153	245	250	255	
18155	Lys Ala Glu Glu Ile Ile Asn Ser Pro Gln Lys Pro Ser Asp Tyr Gln			
18156	260	265	270	
18158	Glu Ser Val Ala Asn Tyr Phe Asn Gln Gln Ile Thr Gln Glu Ile Gln			
18159	275	280	285	
18161	Arg Val Leu Gln Phe Tyr Tyr Thr Thr Gln Thr Ala Asp Asp Met Thr			
18162	290	295	300	
18164	Asp Ile Lys His Ile Leu Leu Thr Gly Glu Ala Ala Arg Gln Glu Gly			
18165	305	310	315	320
18167	Ile Ala Gln Thr Val Ala Ser Gln Thr Asn Ala Asp Val Gln Cys Val			
18168	325	330	335	
18170	His Pro Ala Arg Tyr Phe Ala Asp Asn Leu Lys Thr Asp Lys Gln Gln			
18171	340	345	350	
18173	Phe Glu Leu Asp Ala Pro Thr Leu Thr Arg Ala Phe Gly Leu Ala Val			
18174	355	360	365	
18176	Arg Gly Leu			
18177	370			

E--> 18179 (1)

*deleted*

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/535,168

DATE: 10/10/2006

TIME: 14:21:46

Input Set : E:\sequence listing1.TXT

Output Set: N:\CRF4\10102006\J535168.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:18179 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:217